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ARS-71-25-4
February 1966

UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Service

EDIBLE SOYBEAN OIL
A LIST OF PUBLICATIONS FOR 1965

of the
Northern Utilization Research and Development Division
Peoria, Illinois

PUBLICATIONS

[Publications marked (*) are not available for distribution. When requesting specific reprints, please order by number.]

1777 A LIGHT TEST TO MEASURE STABILITY OF EDIBLE OILS.
Helen A. Moser, C. D. Evans, J. C. Cowan, and W. F. Kwolek.[1]
J. Am. Oil Chemists' Soc. 42(1): 30-33. January 1965.

1779 A NEW CONTROL SYSTEM FOR MONITORING COUNTERCURRENT DISTRIBUTION WITH A RECORDING REFRACTOMETER.
R. O. Butterfield.
J. Am. Oil Chemists' Soc. 42(1): 72. January 1965.

1784 EDIBLE SOYBEAN OIL. A LIST OF PUBLICATIONS AND PATENTS FOR 1964.
North. Util. Res. Devlpmt. Div., Agr. Res. Serv., U.S. Dept. Agr.
ARS-71-25-3. February 1965. 5 pp. [Processed]

1799 QUANTITATIVE DETERMINATION OF DOUBLE BOND POSITIONS IN UNSATURATED FATTY ACIDS AFTER OXIDATIVE CLEAVAGE.
E. P. Jones and V. L. Davison
J. Am. Oil Chemists' Soc. 42(2): 121-126. February 1965.

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[1] ARS Biometrical Services, Peoria, Ill.

1801 HOMOGENEOUS CATALYTIC HYDROGENATION OF UNSATURATED FATS: COBALT CARBONYL.
E. N. Frankel, E. P. Jones, V. L. Davison, E. Emken, and H. J. Dutton.
J. Am. Oil Chemists' Soc. 42(2): 130-134. February 1965.

1817 MICRO VAPOR-PHASE HYDROGENATION ACCESSORY FOR GAS CHROMATOGRAPHIC ANALYSIS OF FATTY ACID ESTERS OF GLYCERIDE OILS.
T. L. Mounts and H. J. Dutton.
Anal. Chem. 37(6): 641-644. May 1965.

1825 HYDROGEN RELEASE DURING HYDRAZINE REDUCTION.
E. D. Bitner and H. J. Dutton.
Chem. Ind. (London) (11): 650. March 13, 1965.

1826 * SOME TECHNIQUES OF RADIOACTIVE GAS CHROMATOGRAPHY FOR LIPID RESEARCH.
H. J. Dutton.
"Advances in Tracer Methodology," ed. Seymour Rothchild, vol. 2, pp. 123-134. New York. 1965.

1829 MASS SPECTROMETRIC STUDIES OF UNSATURATED METHYL ESTERS.
W. K. Rohwedder, A. F. Mabrouk, and E. Selke.
J. Phys. Chem. 69(5): 1711-1715. May 1965.

1845 DEUTERIUM TRACER STUDIES OF THE MECHANISM OF HOMOGENEOUS CATALYTIC HYDROGENATION OF SORBIC ACID WITH PENTACYANOCOBALTATE II.
A. F. Mabrouk, E. Selke, W. K. Rohwedder, and H. J. Dutton.
J. Am. Oil Chemists' Soc. 42(5): 432-434. May 1965.

1847 HYDROGENATED WINTERIZED SOYBEAN OIL. A NEW SOYBEAN OIL FOR EXPORT.
J. C. Cowan.
Soybean Dig. 25(8): 16-17. May 1965.

1851 ADSORPTION GAS CHROMATOGRAPHY OF HYDROCARBONS ON ACTIVATED ALUMINA.
R. L. Hoffmann, G. R. List, and C. D. Evans.
Nature 206(4986): 823-824. May 22, 1965.

135-C INFRARED EMISSION SPECTRA OF SOLID SURFACES.
M. J. D. Low and H. Inoue.
Rutgers, The State University, New Brunswick, N.J.[2]
Anal. Chem. 36(13): 2397-2399. December 1965.

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[2] Report of research work done by an outside agency under contract with the U.S. Department of Agriculture and supervised by the Northern Division.

78-F TRACE ELEMENTS IN EDIBLE FATS. VIII. SOYBEAN OIL "DEMETALIZATION" WITH CATION EXCHANGE RESINS.
A. Vioque, M. A. Albi, and Ma Del Pilar Villagran.
Fat and Oil Institute, Seville, Spain.[3]
J. Am. Oil Chemists' Soc. 41(12): 785-787. December 1964.

1868 ANALYSES OF FATTY ACID ISOMERS IN TWO COMMERCIALLY HYDROGENATED SOYBEAN OILS.
E. P. Jones, C. R. Scholfield, V. L. Davison, and H. J. Dutton.
J. Am. Oil Chemists' Soc. 42(8): 727-730. August 1965.

1869 FLAVOR EVALUATION OF NATURAL SOYBEAN OILS OF HIGH AND LOW LINOLENATE CONTENT.
C. D. Evans, Helen A. Moser, D. G. McConnell, J. C. Cowan,
J. L. Cartter,[4] and F. I. Collins.[4]
J. Am. Oil Chemists' Soc. 42(8): 736-738. August 1965.

1870 SOLVENT WINTERIZATION OF PARTIALLY HYDROGENATED SOYBEAN OILS.
D. G. McConnell, C. D. Evans, and J. C. Cowan.
J. Am. Oil Chemists' Soc. 42(8): 738-741. August 1965.

1878 HOMOGENEOUS HYDROGENATION OF METHYL LINOLENATE CATALYZED BY IRON PENTACARBONYL. FORMATION OF METHYL OCTADECATRIENOATE-IRON TRICARBONYL COMPLEXES.
E. N. Frankel, E. A. Emken, and V. L. Davison.
J. Org. Chem. 30(8): 2739-2745. August 1965.

1889 CHROMATOGRAPHIC STUDIES ON OXIDATIVE AND THERMAL FATTY ACID DIMERS.
C. D. Evans, D. G. McConnell, E. N. Frankel, and J. C. Cowan.
J. Am. Oil Chemists' Soc. 42(9): 764-770. September 1965.

1891 FLAVOR AND OXIDATIVE STABILITY OF SOME LINOLENATE-CONTAINING OILS.
Helen A. Moser, C. D. Evans, G. Mustakas, and J. C. Cowan.
J. Am. Oil Chemists' Soc. 42(9): 811-813. September 1965.

1899 RADIATION EFFECTS OF CARBON-14 AND TRITIUM ON GROWTH OF SOYBEANS.
W. Chorney,[5] N. J. Scully,[5] and H. J. Dutton
Radiation Botany 5(3): 257-263. July 1965.

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[3] Report of research work supported with funds provided by the U.S. Department of Agriculture under the authority of U.S. Public Law 480, 83rd Congress, and sponsored by the Northern Division.

[4] U.S. Regional Soybean Laboratory, Urbana, Ill.

[5] Argonne National Laboratory, Argonne, Ill.

1910 A CHEMICAL MODEL FOR ELECTROLYTIC OXIDATION OF IODATE.
Earl B. Lancaster and Royden O. Butterfield.
Nature 207(5002): 1193-1195. September 11, 1965.

1929 GAS-SOLID CHROMATOGRAPHY OF HYDROCARBONS ON ACTIVATED ALUMINA.
G. R. List, R. L. Hoffmann, and C. D. Evans.
J. Am. Oil Chemists' Soc. 42(12): 1058-1060. December 1965.

1933 HYDROGENATION OF LINOLENATE. XII. EFFECT OF SOLVENTS ON SELECTIVITY.
Sambasivarao Koritala and H. J. Dutton.
J. Am. Oil Chemists' Soc. 42(12): 1150-1152. December 1965.

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M. J. D. Low and H. Inoue.
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146-C THE CATALYTIC PROPERTIES OF VERMICULITE.
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Rutgers, The State University, New Brunswick, N.J.[2]
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90-F TRACE ELEMENTS IN EDIBLE FATS. IX. INFLUENCE OF DEMETALIZATION ON THE OXIDATIVE AND FLAVOR STABILITIES OF SOYBEAN OIL.
A. Vioque, R. Gutierrez, M. A. Albi, and N. Nosti.
Institute of Fats, Seville, Spain.[3]
J. Am. Oil Chemists' Soc. 42(4): 344-345. April 1965.